

Western Electric Co., Incorporated.
Engineering Dept.,
New York.

(3 Pages) Page #1.
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Opn Crd
**METHOD OF OPERATION
LINE CIRCUIT**

To Local Station - Special Outgoing Trunk Test Board - Machine Switching System.
SOUTHWESTERN BELL TELEPHONE COMPANY

GENERAL DESCRIPTION

1. This is a two-way line between the outgoing trunk test board, local test desk and the sender monitor and chief switchman's desk and a local station located in the same office.
2. A call to the local station is made from the local test board on the switchman's desk by operating the talking key and the ringing key in the telephone circuit associated with the test desk. When the receiver at the station is removed from the switchhook the talking connection is established. When the talking key at the test desk is released at the conclusion of the call, the line lamp lights until the receiver is replaced on the switchhook at the local station.
3. On incoming calls to the trunk test board, the line lamp lights and burns steadily until the call is answered.
4. The circuit may be provided with interrupter for use in flashing the signal lamp at the local test board.

DETAILED DESCRIPTION

OPERATION

OUTGOING CALLS FROM TEST DESK

5. On outgoing calls the talking and ringing keys in the telephone circuit are operated. The operation of the talking key connects the telephone set to the line and operates the E34 relay. The operation of this relay prevents the line lamp from lighting when the receiver at the local station is removed from the switchhook. When the receiver at the local station is removed from the switchhook, the E549 relay operates connecting talking battery to the local set through the windings of the relay.

6. When the talking key is released the E34 relay remains operated, under control of the E549 relay, to prevent the lamp from lighting as a false signal. When the receiver at the local station is replaced on the switchhook the E549 relay releases in turn releasing the E34 relay, restoring the circuit to normal.

INCOMING CALLS

7. When the receiver at the local station is removed from the switchhook the E549 relay operates, in turn operating the E226 relay. The operation of the E226 relay lights the line lamps. When the call is answered by operating the talking key in the telephone circuit the E34 relay operates, releasing the E226 relay, extinguishing the line lamps. From this point on the operation of the circuit is as previously described.

(3 Pages) Page #2.
Issue 4 - BT-438522.
March 29, 1920.

8. When it is desired to have an incoming signal at the local test desk the operation of the E226 relay connects the signal lamp at the local test desk to the interrupter. In all other respects the operation of the circuit is as previously described.

(3 Pages) Page #3.
Issue 4 - BT-438522.
March 29, 1920.

CIRCUIT REQUIREMENTS

	<u>OPERATE</u>	<u>NON-OPERATE</u>	<u>RELEASE</u>
E34	Test .031 amp. Readj. .020 amp.	Test .015 amp. Readj. .016 amp.	
E226	Test .029 amp. Readj. .015 amp.		Test .0038 amp. Readj. .004 amp.
E549	Test .037 amp. Wdgs. in series aiding	Readj. .027 amp.	Test .0045 amp. Readj. .005 amp.

ENG. -- TML-JO.
10/5/21.

CHK 'D.-- CHW.

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